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EFFICECE, T. F.
   25876 Elkhinson, I. i. Clephospirest, in Pakalevanipain. Colombon. II.

I. F. Hikkinson I B. E. Pakainskiy. Vapat. - Eal. 1 (1987), 1987, 1987.
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是一个人,我们就是一个人的,我们也不是一个人的,我们也不是一个人的,我们也不是一个人的,我们也没有一个人的,我们也没有一个人的,我们也没有一个人的。""我们也不

NIKHINSON, I.M. 25876

O Leptospiroznykh Zabolevaniyakh Soobshch. II I.M. Nikhinson I d.N. Pakhinskiy. Voyen.-Med. Zhurnal, 1948, No.6, S. 45-49

SO: LETOPIS NO. 30, 1948

HIRHINSON, I.M., podpolkovník meditsinskoy sluzhby; LEV. A.S., podpolkovník meditsinskoy sluzhby

Some data on the role of the water factor in the epidemiology of dysentery. Voen.-med. shur. no.4:59-60 Ap '56. (MLRA 9:9)

(WATER--BACTERIOLOGY) (DYSENTERY)

MINHINSON, I.M.

"Collection of Air Samples With the Help of a Filter Cartridge and Gas Mask to Detect Microflora," by I. M. Nikhinson,
I. A. Katsnel'son, and R. D. Gorodetskiy, Voyenno-Meditsinskiy
Zhurnal No 11, Nov 56, pp 54-55

"We proposed and tosted the filter cartridge of a filtering gas mask to simplify the method of collecting air samples, especially under field conditions, for the purpose of observing microorganisms, rickett-siae, and viruses in the samples.

"The filter cartridge is a tin cylinder 1.8 cm in diameter and 2.5 cm high. The botton of the cylinder has 10-20 openings. The other end is open.

"On the interior surface of the grid of the cartridge, a pad consisting of six laters of gauze is closely compressed by a bottomless cylinder 4.5 cm high which is set inside the first cylinder (the dimensions of the cartridge can be varied depending on the size of the openings in the casing of the gas mask). The converted filter cartridge is wrapped in paper or placed in a metal or wooden covering and sterilized.

54M.1345

NIKHINSON, IM.

**Before collection of air samples, the sterile cartridge, removed from the paper, is set into the opening in the bottom of the gas mask housing. From 5 to 6 minutes after use of the gas mask with the filter cartridge has begun, the cartridge is removed and aken into a bacteriological laboratory. Smears are prepared from the suspension obtained by washing the six-layer gauze with physiological solution; seeding and infection of animals are carried out with the suspension.

"We conducted 95 bacteriological analyses of air in rooms of the barracks. Samples were taken while the barracks was occupied. Air was simultaneously investigated by D'Yakanov's method. A D'yakanov flask was connected to the gas mask. A gas reter permitted us to establish the fact that a man in a gas mask equipped with a filter cartridge inhales 6 liters of air per minute. The same volume of air is inhaled if a D'yakanov flask is attached to the gas mask. One ml of suspension was seeded on a Petri dish containing agar. The seedings afforded the growth of microorganisms encountered in the air (Sarcina, Staphylococcus, grampositive bacilli, molds, and fungi).

"The same microorganisms were isolated from the air with the filter cartridge as were isolated when samples were collected with the D', mancy flask. In 22 air samples, the quantity of microorganisms was found to be greater on collection with the filter cartridge; in 53 samples, the quantity was only slightly greater than that found in samples collected by the D'yakanov method; in 20 samples, analogous results were obtained.

SUM. 13 45

NIKHINSON, I.M.

Fifteen air samples were taken in the barracks immediately after the personnel had arisen, and the same number were taken after the quarters had been ventilated. Ventilation decreased the microbial content of the air in the barracks 2-2.5 times.

"With the help of the filter cartridge the unit physician can check the ventilation in the barracks. The simplified method of collecting air samples can be employed for determining the species content of the microflora. We investigated the sir in a laboratory box after dispersing a suspension of Staphylococcus aureus and intestinal bacilli in it.

These microorganisms always infected the gauze packing of the filter. These filter cartridge can also be used expediently under field conditions. The filter cartridge can also be used expediently under field conditions in cases where rapid collection of air samples for detecting microflora is required."

Sum. 1345

Country: USSR E

Cologram: Virology, Viruses of Man and Anials, Ricketosias.

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103590

Number : Mikhinson, I.M.; Kambur, I.B.; Savchenko, E.M.

I.15. : =

Tule : "Q" Fever in Sakhalin

Orig Pub: Zh. mikrobiol., epidemicl. i immunobiol., 1958, $\sqrt{}$

No 2, 51-54.

Abstract: No abstract.

Card : 1/1

A case of ornithosis. Vrach.delo no.2:191 F '59.

1. Klinika infektsionnykh bolezney (zav. - prof.I.R.Braude [deceased]) Khar'kovskogo meditsinskogo instituta i oblastnaya sanitarno-epidemiologicheskaya stantsiya.

(ORNITHOSIS)

MIKHINSON, I.M.; DOBRAYA, T.Ye.; YASHEK, Kh.N.

Virological and serological features of the influenza outbreak in Kharkov and districts of Kharkov Province in the first quarter of 1959. Vop. virus. 5 no. 6:751 N-D '60. (MIRA 14:4) (KHARKOV PROVINCE—INFLUENZA)

NIKHINSON, I.M.; BASKOVICH, TS.L.; SHVETS, TS.I.

Method for the bacteriological study of convalescents and those who have had dysentery. Lab. delo 7 no.12:36-37 D '61.

(MIRA 14:11)

1. Khar'kovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya (glavnyy vrach I.I.Chernov).
(DYSENTERY)

ACC NRI AP	(A)	SOURCE CODE:	UR/0240/66/000/009/u0n0/0081
AUTHOR: N Gorodetska	ikhinson, I. M.; (Candid ya, V. M. (Khar'kov); K	ate of medical scien urasova, Zh. V. (Kha	ces; Khar'kov); r'kov)
ORG: none			
TITLE: Ph	age typing pathogenic st	aphylococci	
Source: G	igiyena i sanitariya, no	. 9, 1966, 80-81	
TOPIC TAGS	: staphylococcus, pathoggy, bacteriophage	gen, phage, typing,	diagnostic medicine,
ABSTRACT:	Staphylococci isolated three basic groups and compared with results of and more accurate.	then into subgroups. f standard tests and	This method was
SUB CODE:	06/ SUBM DATE: 29Jan66	6/ ORIG REF: 004/	
Card 1/1	·	UDC: 576.851	252.06.077.5

。 (1),但由于中国的政策的对象,是自己的政策的,但是是自己的政策的,但是是自己的政策的,但是是是自己的政策的,但是是是是是国家的政策的,但是是由于国家的政策的,

AUTHOR TITLE WIKHINSON L.K., Chief Bureau of Mechanisation PA - 3060 Mechanisation of work intensive processes.

PERIODICAL

1.15 5 5

(Mekhanisatsiya trudoyemkikh proteessov.- Russian) Metallurg 1957, Vol 2, Mr 4, pp 29 - 30 (USSM)

ABSTRACT

Received: 5/1957 Reviewed: 7/1957 The eircumstance that future mechanisation was not taken into account when the Kusnetsk Metallurgical Combinate was built makes this mechanisation extremely difficult. Nevertheless, much progress has been made in the postwar years. 982 different measures made it possible to withdraw and use otherwise about 3000 workers and to make easier the work of 5000 others. A reserve of performance increase is the cutting of the time of furnace lay-offs at repairs. Here it was possible by mechanisation and better organisation to save about 4.5 days per blast furnace. The Martin furnaces have the shortest interruptions in their work in the entire USSE. The workers of the eoke furnaces showed much seal and initiative in finding a special mechanised settler for the exchange of the mountings of the regenerators of the soke furnaces without interrupting the operation and the furnaces. Nevertheless much still has to be done. The plants and the specialized institutes must work out efficient methods of cooling the furnaces after they have

CARD 1/3

Mechanisation of work intensive processes.

PA - 3060

been laid off. Many interesting devices have been introduced in the rolling mills of the Combinate; manipulary rulers with pneumatic drive at the lifting platforms of the fine staging of the plate-rolling mill, mechanical edgers for semifinished material and ingots, etc. Many stages of production formerly were bottlenecks because they had to be done manually. Under difficult conditions of the plant which was under continuous operation the conveyance of rails to the countersink was mechanised (by means of tractors and roll tables) resulting in the availability of 112 workers of rother purposes and in an increase of the performance by 50 %. Simultaneously the weight of the rails was increased to 75 kg per running meter. Nevertheless, a complete mesernisation of the rolling trains still is lacking. Loading and unloading are already highly mechanised. In order to make a mechanization in the transport division possible, the depote for raw materials the fuel had to be reconstructed, new types of wagons had to be ereated and old ones rebuilt. The degree of mechanisation rose to 94 %. But even here many things still have to be done. At present, mechanisation of the work in the forehearth trench of the blast furnace is under

CARD 2/3

NIKHINSON, Yu.l., inzh.; TESLENKO, L.F., inzh.

Preparing the welding wire for welding in carbon dioxide.
Svar. proizv. no.6:39 Je '63. (MIRA 16:12)

1. Khar'kovskiy traktorosborochnyy zavod.

TO THE PROPERTY OF THE PROPERT

ZOGRAFKI, Str.; NIKHTIANOV, Khr.; DASHEV.G.

Successful surgery of a case of pheochromocytoma. Khirurgiia (3ofiia) 16 no.10:959-961 '63.

l. Iz katedrite po bolnichna khirurgiia i po endokrinologiia i bolesti na obmianata pri ISUL, Sofiia.

CIA-RDP86-00513R001136920003-6 "APPROVED FOR RELEASE: 07/13/2001

GRUNER, Matilda, inz.; NIKIC, Milutin, inz.; FILAJDIC, Mirko, dr.inz.

Color of nitrosomyoglobin during the processing of frankfurters. Kem ind 12 no.9:665-669 S '63.

Biotehnoloski odjel, Tehnoloski fakultet, Zagret.
 Clan Redakcionog odbora, "Kemija u industriji" (for Filajdic).

s/076/63/037/001/011/029 B101/B186

Kondrat'yev, V. P., Nikich, V. I. (MOSCOW) Electrical conductivity of aqueous solutions of alkaline AUTHORS:

earth chlorides at high temperatures TITLE:

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 1, 1963, 100-105 TEXT: The data on the electrical conductivity & of aqueous solutions of

MECL₂, CaCl₂, and SrCl₂ in molal concentrations of 0.05 - 1.0 m and 0.5 m BaCl₂ at 25 - 300°C, which so far have not been published, were calculated and are here tabulated. At rising temperature * was found to

concentration, and A, B, k are empirical constants, is valid in the above concentration, and A, B, K are empirical constants, is the accurrence of K at a range of temperatures and concentrations. The occurrence of max pass a maximum.

certain temperature is explained by the assumption that the dissociation of the electrolytes decreases as the temperature increases. At lower temperatures the salts are completely dissociated, their & depends on the card 1/2

Electrical conductivity of aqueous ...

\$/076/63/037/001/011/029 B101/B186

radius of the solvated ion, i. e. on its mobility, and forms the sequence $Mg^{2+} < Ca^{2+} < Sr^{2+} < Ba^{2+}$. The mobility increases and the amount of the d.ssociated ion decreases as the temperature rises. Hence, * max occurs at a certain temperature. Besides, hydrolysis takes place at high temperatures causing the appearance of highly mobile ${\tt H}^{\scriptsize +}.icns$. The sequence MgCl₂ > CaCl₂ > SrCl₂ > BaCl₂ holds for & at 0.05 m, owing to the different tendency of the studied alkaline earth compounds to hydrolyze. There are 6 figures and 4 tables.

ASSOCIATION: Moskovskiy knimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED:

September 27, 1961

Card 2/2

NIKICH, V.I., GORBACHEV, S.V.

Specific gravity of electrolyte solutions in anhydrous acetic acid at high temperatures. Trudy MKHTI no.44341-44 64.

(MIRA 18:1)

Specific conductivity of electrolyte solutions in anhydrous acetic acid at high temperatures. Ibid. 845-49

KORST, N.N.; NIKICH-KRILICHEVSKIY, O.4.

Relaxation equations for the megnatic moment of a bound spin system. Tecret. i eksper. knim. i nc.42505-510 165.

(MIRA 18:10)

1. Institut knimicheszy fiziki AN SSSR, Megkys.

NIKIEL, Nikodem

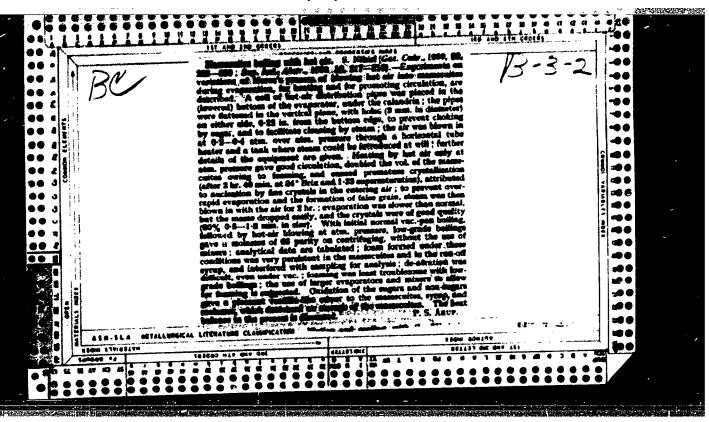
Histoplasmosis. Polski tygod. lek. 11 no.3:126-130 16 Jan 56.

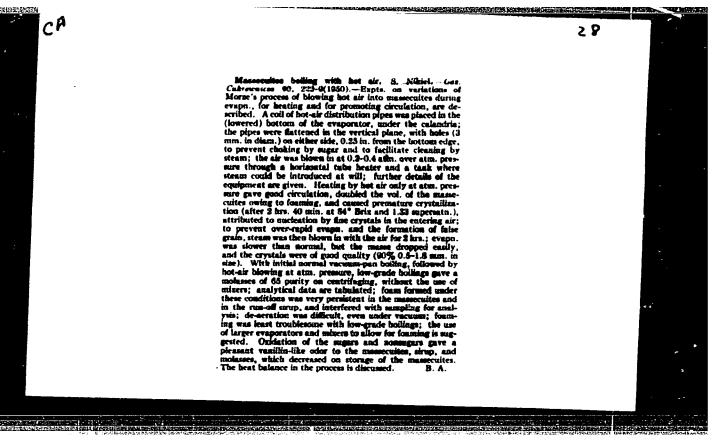
1. Z II Odds. Chorob Wewnet. I.D.S. K.L. w Warszawie. kier. prof. dr. med. Walenty Hartwig, Wagrowiec, ul. Jednosc 8 m. 1.

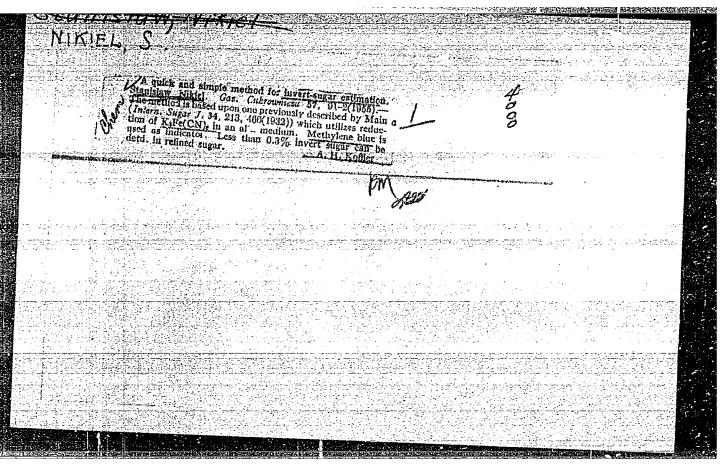
(HISTOPLASMOSIS review.

NOWAK, Karol, mgr inz.; WILCZYNSKA, Jadwiga, inz.; NIKIEL, Stefan
Biuret as an impurity in fertilizing urea. Chemik 16 no.7/8:
189-192 J1-Ag '63.

1. Zaklady Azotowe, Kedzierzyn.







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NIMIEL TEAMISHAD

POLAND/Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement.

H-26

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15912

Author : Nikiel Stanislav

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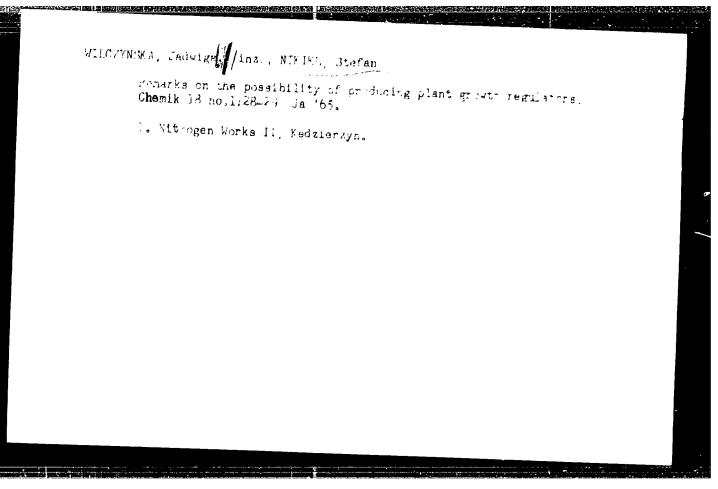
Title : What Is New in the Chemistry of Saccharose and Non-Sugars.

Orig Pub: Gaz. cukrown., 1956, 58, No 10, 229.

Abstract: Brief information concerning the possibility of obtaining from

sugar various derivatives which can be utilized as detergents, emilsifying agents, plastics and explosives. A brief description of the methods of production and principal characteristics of the following: acetyl saccharose, allyl saccharose, sorbitol, mannitol, betaine, riboflavin, levulinic acid, etc.

Card : 1/1



NIKIEL, T.

Modernization of steam turbines. p. 236.

ENERGTYKA, Vol. 9, No. 5 Sept./Cct. 1775

(Ministerstwo Energetyki, Stalinogrod.

SCURGE: EAST EUROP AN ACCESSIONS HET Vol. 5, No. 1 Jan. 1956

	Turbiny	Parowe	(Steam	Turbines)	Na no su e	D= 4		! ! d ! !	Technicane,	
			12000	Tyronica).	naisaw.	(MI)	MOMH	aydawnictwa	Technicane,	1957.
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JEDYNAK, Mieczyslaw, inz.; RUBASZOWSKI, Tadeysz, inz.; BIALY, Adam, inz. BOTWINA, Mieczyslaw, inz.; MARTEIA, Ludwik, inz.; NIKIŁL, Tadeusz, inz.; LIZEWSKI, Waclaw, inz.

Increasing the maximum power of 55 MW Skcda steam turbines during the peak period by 3 Fb, during 3 hours, for each turbine. Increasing the maximum power of 20 Fb Alsthon steaturbines during the peak period by 1 MW, during 3 hours, for each turbine. Gosp paliw 11 Special issue no.(95):58 Ja 163.

1. Elektrownia Stalowa Wola.

SAPOZHEIKOVA, S.A.; MEL', M.I.; SMIRROVA, V.A.; BIKIFONOVA, A.T.

Evaluating the climatic and agricultural resources of the U.S.S.R.

Trudy NIIAK no.2:78-115 '57.

(Crops and climate)

(UIRA 11:9)

NIKIFORENKO, N., mayor tekhnicheskoy sluzhby
Automatic-control attachment. Voen.vest. 43 no.10:94-95 0
'63. (MIRA 16:12)

AUTdOR:

Nikiforenko N.N.

SCV/68-58-10-6/25

THE SECRETARY SECTION OF THE SECRETARY SECTION OF THE SECTION OF T

TITLE:

A Universal Automatic Sampling Installation for Coke and Coal (Universal'nyy avtomaticheskiy probootbornik koksa

ili uglya)

PERIODICAL:

Koks i Khimiya, 1958, Nr 10, pp 19 - 20 (USSR)

ABSTRACT: An automatic sampling installation for coke and coal taking samples from a stream of material falling from a conveyor belt by diverting the falling material at pre-determined time intervals into a sampling vessel is described and illustrated. The sampling installation and its electrical scheme are shown in Figures 1 and 2, respectively. It is claimed that the installation operates on the Kharkov

Coking Works with satisfactory results.

There are 2 figures.

ASSOCIATION:

Khar'kovskiy koksckhimicheskiy zavod (Kharkov

Coking Works)

Card 1/1

GESTRIN, N.P. [Hestryn, N.P.]; NIKIFORENKO, V.A. [Nykyforenko, V.A.]

Improving the production of polyacrylamide in the Mizoch and Sambor sugar factories. Kharch.prom. ne.4:16-20 O-D '63. (MIRA 17:1)

AUTHOR: Budenkov, G. A.; Nikiforenko	SOURCE CODE: UR/0032/66/032, o, Zh. G.; Shkol'nik, I. E.	70
ORG: All-Union Scientific Research Methods and Means of Controling the Gdovatel'skiy institut po razrabotke machestva materialov)	Institute for the Development of Nond	estructive
kachestva materialov) TITLE: An estimate of the stress sta	and Johnson Metodov 1 Sredstv	kontrolya
SOURCE: Zavodskaya Laboratoriya, v.	32, no. 8, 1966, 962-965	
TOPIC TAGS: stress analysis, ultrasonedium, elasticity theory, elastic st		l i
ABSTRACT: A method was developed for according to their anisotropic parameters given relating stress to deformativates. The latter equations showed the coverned by anisotropic elasticity. The energy ween elastic stresses and the shear perials was developed from the frequent	tion and to the speed of three-dimens hat in the presence of stress, solid The experimental and theoretical depe	ional shear bodies are
erials was developed from the frequen nternal stresses in solids. Elastic	ncy ultrasonic polarization method of anisotropy was determined by measuri	va ious ma- measuring ng the fre-
Card 1/2	UDC: 620.179.16	

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quency. The emitter and receiver were positioned so that the direction of the oscillation feed would remain at an angle of 1/4 with the principle plane. In this case, the amplitude of electrical oscillations impinging on the receiver varied according to a cosine law. The change in frequency for a constant path length of elastic oscillations in anisotropic media is given as a function of the relative change in velocity of the shear wave $(\Delta v/v_g)$. A block diagram of the experimental apparatus is given. Testing was done on samples of organic glass, a DIST aluminum alloy, and fine-grained concrete. Prismatic samples were compressed; the amplitude-frequency characteristics and the relative change in shear wave velocity are given as a function of the axial stress. From these, the third order constants A and B were determined, where $A = -(\Delta v/v_g \cdot 8\mu^2/\sigma + 4\mu)$. The dependence of $\Delta v/v_g$ on stress is linear and is represented by the equation

 $\Delta v/v_g = \sigma/8\mu^2 (4\mu + A)$.

The relative error in the method was 2-3%. The cause of anisotropy was preferred orientation due to rolling. Orig. art. has: 4 figures, 9 formulas.

OTH REF: 005 ORIG REF: 002/ 11,20/ SUBM DATE: none/ SUB CODE:

Ultrasonic Applications

LS Card 2/2

ACC NR. AP6021473

SOURCE CODE: UR/0413/66/000/011/0094/0094

INVENTOR: Zhuravel', V. I.; Minakov, V. I.; Bobrov, V. T.; Dimitraki, P. N.; Niki-forenko, Zh. G.; Budenkov, G. A.; Gitis, M. B.

ORG: None

TITLE: An ultrasonic pulse-shadow immersion flaw detector. Class 42, No. 182390 [announced by the All-Union Scientific Research Institute of Nondestructive Methods for Material Quality Control (Vsesoyuznyy nauchno-issledovatel'skiy institut neraz-rushayushchikh metodov kontrolya kachestva materialov)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 94

TOPIC TAGS: flaw detection, ultrasonic flaw detector, quality control

ABSTRACT: This Author's Certificate introduces: 1. An ultrasonic pulse-shadow immersion flaw detector which contains an ultrasonic probe unit, line scanning mechanism, oscillator and ultrasonic amplifier. The unit is designed for increased productivity in checking parts of complex shape. The installation incorporates an electronic unit which generates a control signal after the ultrasonic probe unit passes beyond the outline of the part being checked. This signal controls the line scanning mechanism and temporarily disconnects the receiving head from the amplifier. 2. A modification of this flaw detector in which the electronic unit is made in such a

Card 1/2

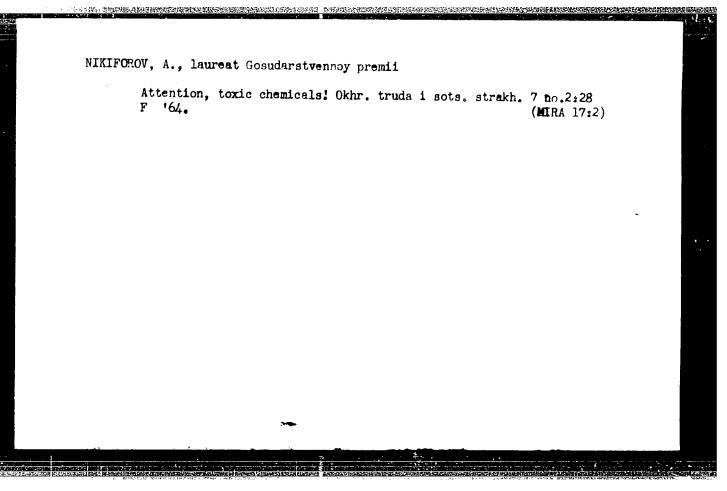
UDC: 620:179.16.08

ACC NR. AP6021473

way that when there is a single pair of ultrasonic probes in the installation the receiver head is disconnected from the amplifier during the period when the probe unit is returning to the article being checked. 3. A modification of this flaw detector in which the electronic unit is made in such a way that when there are two pairs of ultrasonic probes located one behind the other along their line of motion in the installation, the receiver head disconnected from the amplifier is the one which first passes beyond the outline of the part being checked. This receiver head is connected when the second pair of probes passes beyond the outline of the part on the return travel of the probe unit.

SUB CODE: 09, 13/ SUBM DATE: 07Dec64

Card 2/2



L 54849-65 ACCESSION NR: AF5014673 UR/0348/65/000/006/C024/0025 632.952

AUTHORS: Koroley, P. (Engineer, Chemist); Nikiforoy, A. (Agronomist)

TITLE: Promising fungicides

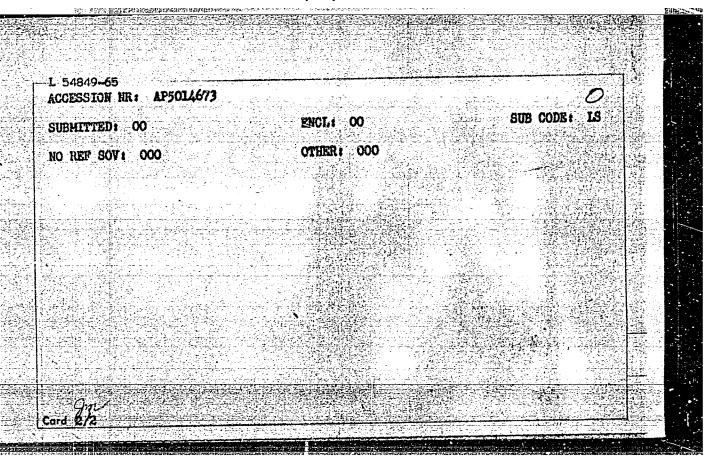
SOURCE: Zashchita rasteniy of wreditaley i bolazney, oc. 6, 1965, 24-25

TOPIC TAGS: agriculture, fungus, fungicido

ABSTRACT: In recent years the MSKh SSSR State Committee for chemical means of controlling agricultural pests, diseases, and weeds has tested foreign and domestic fungicides. It recommends the release of the following types. N-trichloromethylthiotetrahydrophthalamide, 2,3-dichlero-maphthoquinons-1,4-, mercurohexane (1% ethylmercurochloride, 20% hexamhlorobenzens, 12% gamma isomer GKhTsG, and 67% filler), phthalane (the active part of N-trichloromethylthiophthalamide), copper oxychloride, zinc ethylenebiscithiocarbamate, and zinc dimethyldithiocarbamate. The article centains physical descriptions, the necessary amounts, the modes of application, the times of application, the action, and other characteristics of the above substances.

ASSOCIATION: none Card 1/2

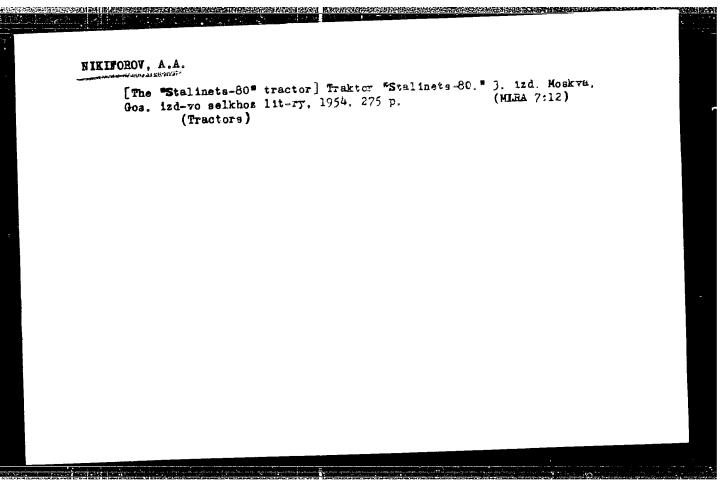
"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001136920003-6



LAZAREV, A.A., inzh.; MITSYN, P.V., inzh.; NIKIFOROV, A.A., inzh.;
ROZET, I.Ya., inzh.; SHCHEBINA, V.I., inzh.; DEM'YANOVICH,
ROZET, I.Ya., inzh.; SHCHEBINA, V.I., inzh.; DEM'YANOVICH,
A.N., laureat Stalinskoy premii, red.; TIKHONOV, A.Ya.,
tekhn. red.

[Catalog of parts of the "Stalinets-80" tractor]Katalog detalei traktora "Stalinets-80." Moskva, Moskva, Mashgis, 1953.
(MIRA 16:7)
217 p.

1. Glavnyy inzhener Chelyabinskogo traktornogo zavoda im. Stalina
(for Dem'yanovich). (Tractors—Catalogs)



LAZAREV, Anatoliy Abramovich, inzh.; MITSYN, P.V., inzh.; MIKIFOROV, A.A., inzh.; ROZET, I.Ya., inzh.; MAMONTOV, Ye.V., inzh.; KONYLYAKOV, L.W., red.; GOR'KOVA, Z.D., tekhn.red.

[Manual on the operation of S-80 and S-100 tractors] Rukovodstvo po ekspluatstaii traktorov S-80 i S-100. Pod red. E.V. Mamontova. po ekspluatstaii traktorov S-80; isl-ry, 1957. 357 p. (MIRA 11:1)

(Tractors)

KAV' YAROV, I.S., inzh.; LAZAREV, A.A., inzh.; NIKIFOROV, A.A., inzh.;
ROZET, I.Ta., inzh.; VCYTETSKIY, G.P., Inzh., red.; KASPEROVICH,
N.S., inzh., red.izd-va; UVAROVA, A.F., tekhn.red.

[Catalog of spare parts for S-80 and S-100 tractors] Katalog
sapasnykh chastei traktorov S-80 i S-100. Moskva, Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry, 1959. 230 p.

(MIRA 14:4)

1. Chelyabinskiy traktornyy zavod, Chelyabinsk. 2. Otdel glavnogo
konstruktora Chelyabinskogo traktornogo zavoda (for Kav'yarov,
Lezarev, Mikiforov, Rozet).

(Tractors--Catalogs)

MIKIFOROV, Aleksandr Arkad'yevich; KRYUKOV, V.L., red.; PEVZNER, V.I., tekhn.red.

[Andbook for S-80 and S-100 tractors] Spravochnik po traktoram s-80 i S-100. Moskva, Gos.isd-vo sel'khoz.lit-ry, 1960. 156 p. (MIRA 13:5)

(Tractors)

其代数和**分析,对称中国的中国人类的**的现在分析是是是是是是是是一个人,但是一个人的一个人的,但是一个人的是一个人的,但是一个人的,但是是<mark>是是一个人的,并且是一个人的,</mark>

LAZAREV. Anatoliy Abramovich, insh.; MITSYN, P.V., insh.; NIKIFOROV, A.A., insh.; ROZET, I.Ya., insh., Prinimali uchastiye: ZLOTNIK, M.I., insh.; MAGARILLO, B.L., insh., KAV'YAROV, I.S., insh., red.; TRASHUTIN, I.Ya., insh., red.; KOBYLYAKOV, L.M., red.; PEVZNER, V.I., tekhn.red.

[Manual for operating the S-100 tractor] Rukovodstvo po ekspluatatsii traktora S-100. Pod red. I.S.Kav'iarova i I.IA. Trashutina. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 263 p. (MIRA 13:5) (Tractors)

LAZAREV, A.A., inzh.; MITSYN, P.V., inzh.; NIKIFOROV, A.A., inzh.; ROZET, I.Ya., inzh.; KRYUKOV, V., red.; HALLOU, A., tekhn. red.

[Dismantling and assembling the S-100 tractor] Razborka i sborka traktora S-100. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1962. 231 p. (MIRA 15:4)

1. Chelyabinskiy traktornyy zavod (for Lazarev, Mitsyn, Nikiforov, Rozet).

(Tractors—Maintenance and repair)

SHOSTAKCUSKIY, M.F.; VLASCV, W.M.; NIKIFORCV, A.A.

Interaction of cyclic acetals with thiophenol. Zhur.ob.
(MIRA 17:7)

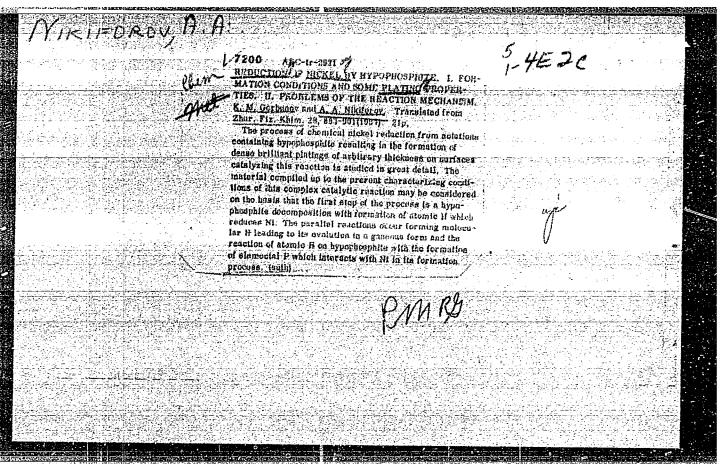
1. Irkutskiy institut organicnesk: / khimii Sibirskogo
otdeleniya AN SSSR.

DELEKTORSKIY, N.V.; NEUGODOV, P.P.; NIKIPOROV, A.A.

Producing pyramidon at a greater rate. Med. prom. 11 no.2:46-49
F '57 (MLRA 10:4)

1. Chimiko-farmatsevticheekiy zavod "Akrikhin."

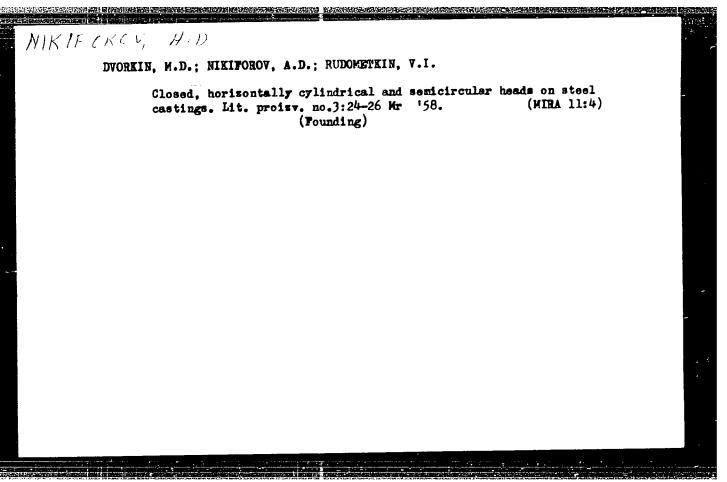
(AMINOPYRINE)



KUZNETSOV, N. V.; B'RNASHOVA, T. D.; NIKIFOROV, A. A.; KEYKO, N. A.

Synthesis of glyoxal and glycolic acid. Izv AN SSSR Ser Khim no. 4:692-695 Ap '64. (MIRA 17:5)

1. Irkutskiy institut organicheskoy khimii AN SSSR.



PARTY AND THE PROPERTY OF THE PARTY OF THE P

AUTHOR: Nikiforov, A.D., Engineer 204-28-53-4-20/35

TITLE: Bases of Flanned Standards for Metric Threads [ishovy pro-

yektov standartov na metricheskuju rez bu,

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp 69 - 73 (USSP)

ABSTRACT: By taking into account recommendations made by the International Organization of Standardization, plans for new

standards on metric threads from 0.25 - 0.9 mm were developed in order to replace GOST standards 3196-46, 3197-46, and 3198-46. Two of the most usual screw types are described and a new system of thread tolerances [NO.25 - MG.9 mm) is suggested. The recommended thread profile with an angle of $\mathbf{X} = 60^{\circ}$ and a plane cut by the inner nut

diameter equal to $\frac{t}{\lambda}$ has considerable technological ad-

vantages and increases the screw strength. There are 5

tables and 3 diagrams.

ASSOCIATION: MVTU imeni Baumana (MVTV imeni Bauman,

1. Screw threads--Standards

Card 1/1

NIKIFOROV, A. D. Cand Tech Sci -- (diss) "Study of the parameters and precision of metric threads of clockworks." Mos, 1959. 17 pp; 1 sheet of diagrams (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of Lenin and Order of Labor Red Barmer Higher Tech School im Bauman), 120 copies (KL, 46-59, 138)

37 -**3**8

YAKUSHEV, A.I.; NIKIFOROV, A.D.

Investigating the precision and strength of screw threads having a diameter up to 1 mm. Nauch. dokl. vys. shkoly; mash. i prib. no.159-170 '59. (MIRA 12:12)

(Screw thread)

RIKITEREN, A D

PHASE I BOOK EXPLOITATION

sov/4438

Vzaimozamenyayemost' i tekhnicheskiye izmereniya v mashinostroyenii; mezhvuzovskiy sbornik, no. 2 (Interchangeability and Engineering Measurements in Machinery Manufacture; University Collection, No. 2) Moscov, Mashgiz, 1960. 542 p. Errata slip inserted. 5,000 copies printed.

Ed.: A.I. Yakushev, Doctor of Technical Sciences, Professor; Editorial Council: A.I. Yakushev (Chairman); B.A. Tayts, Doctor of Technical Sciences, Professor; Ye. I. Volodin, Docent; N.N. Ganchev, Docent; P.N. Goberman, Docent; and O. Ya. Yegor'yev (Scientific Secretary), Engineer; Reviewer: M. Ye. Yegorov, Doctor of Technical Sciences, Professor; Eds.: B.A. Tayts; V.P. Korotkov, Candidate of Technical Sciences, Docent; L.N. Vorontsov, Candidate of Technical Sciences; Managing Ed. for Literature on Machine and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer; Ed. of Publishing House: G.F. Kochetova; Tech. Ed.:

PURPOSE: This collection of articles is intended for scientific and technical personnel dealing with problems of interchangeability and engineering measurements in the machine and instrument industries.

Card 1/7

Interchangeability and Engineering Measurements (Cont.) SOV/4438 COVERAGE: The book deals with the results of theoretical and experimental investigations of interchangeability of standard conjugated machine parts and the criteria for selecting the accuracy of measuring devices and for designing instruments for engineering measurements. Methods for analyzing automatic machine tools, transfer machines, and means of feedback control of the dimensions of parts in process are discussed in detail. Methods based on the use of optically interfering screens and radioactive isotopes are included in the discussion. No personalities are mentioned. References accompany several of the articles. TABLE OF CONTENTS: Yakushev, A.I. Foreword 3 SECTION I. INTERCHANGEABILITY Korotkov, V.P. Kinematic Accuracy of Screw Pairs 9 Nikiforov, A.D. [Engineer]. System of Thread Tolerances Used in Clockwork 59 Stayev, K.P. [Candidate of Technical Sciences, Docent]. Accuracy of Threads Produced by Rolling 76 Gard 2/-7

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Goberman, P.N. [Candidate of Technical Sciences, Docent]. Solution of Some Problems of Thread Interchangeability With the Theoretical Probability Method	89 on 1-
Tishchenko, O.F. [Candidate of Technical Sciences]. Calculation of Colerances for Toothed Gears in Clocks Based on Gear Contains of the Colerance of	96
inciples for Determining Cam Dimensions and Tolerances].	tions 111
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alitenko, V.G. [Engineer]. Basis for Selecting the Clearance	160
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System of tolerances f Vzaim i tekh izm v mas	or screw threads used in watch mechanisms. hinostr.;mezhvus.sbor. no.2:59-75 60.	
(Screw threads)	(MIRA 13:8) (Tolerance (Engineering))	

S/028/60/000/012/005/00? B027/B058

AUTHOR:

Nikiforov A. D.

TITLE:

Tools for Metric Thread Cutting up to 'mm Diameter

PERIODICAL:

Standartizatsıya, 1960, No. 12. pp. 35 - 38

TEXT: FOLT 8859-60 (GOST 8859-60): Machine Thread Cutter for Metric Thread With Diameters of 0.25 - 0.9 mm, Valid as From July 1, 1961, FOLT 8860-60 (GOST 8860-60): Screw Dies for Metric Thread With Diameters of 0.25-0.9 mm Valid as From July 1, 1961 These new standards for thread cutters and screw dies warrant an increased resistance of the tool through proper selection of its form, material hardness after heat treatment, and inner and outer diameters. For the cone of the gear cutter, which is a most important part, various rake angles are provided, i.e.: 140 for open holes and 230 for blind holes. The material specified is carbon steel of the types 411A (U11A) and 412A (U12A) according to FOCT 1435-54 (GOST 1435-54). The following demands are made on the material: 1) High torsional strength.

Card 1/3

Tools for Metric Thread Cutting up to 1 mm Diameter

S/028/60/000/012/005/007 B027/B058

ground, 3) Plastic flexibility. Two hardness ranges are specified after heat treatment: 60-62 RC for threads from steel of the type4708, 410A (U708, U10A) and others at $\sigma_{\rm B} > 70~{\rm kg/mm^2}$ ($\sigma_{\rm B}$ denotes tensile strength). 57-59 RC for threads from German silver, brass and others at $\sigma_R < 60 \text{ kg/mm}^2$. The smallest outer diameter is standardized so that the lowest torque may develop during thread cutting. The mean diameter is determined by tolerance values. (18860-60 (GOST 8860-60) refers to round, closed screw dies. The material for these dies is carbon steel of the typ 411A, 412A (U11A, and U12A); its hardness after heat treatment is 60-62 RC. The smallest cuter diameter of the screw die equals the nominal outer diameter of the main thread. The largest mean diameter equals the smallest mean diameter of the ring gauge. Thread cutters are tested with steel of the type410A (U10A) or brass of the type A(63-3T (LS 63-3T). The total length of the thread out is 25 to 50 mm. When using the cutting tool made according to POCT 8859-60 (GOST 8859-60) and POCI8860-60 (GOST 8860-60) at the Pervyy moskovskiy chasovoy zavod (First Moscow Watchmaking Plant) and the Vtoroy moskovskiy chasovcy zavod (Second Moscow Watchmaking Plant), it

Card 2/3

Tools for Metric Thread Cutting up to 1 mm Diameter

\$/028/60/000/012/005/007 B027/B058

was established that it is of high resistance and warrants the accuracy of threads according to POCI 9000-59 (GOST 9000-59). There are 2 figures

Card 3/3

NIKIFOROV, A.D.

Establishing allowances for standard parts of chemical apparatus.

Standartizatsiia 28 no.8:13-16 Ag '64.

(MIRA 17:11)

NIKIFOROV, A.D., kand.tekhn.nauk

New system of allowances for metric screw threads with a diameter up to 1 mm. Priborostroenie ro.6:26-28 Je '61.

(MIRA 14:6)

(Screw threads, Standard)

NIKIFOROV, Anatoliy Dmitriyevich, kand. tekhn. nauk, dots.;

KARNEYEV, V.A., red.; VORONINA, R.K., tekhn. red.

[Precision and technological processes of the machining of metric threads] Tochnost i tekhnologiia izgotovleniia metricheekikh rez'b. Moskva, Gos.izd-vo "Vysshaia shkola,"

1963. 179 p. (MIRA 16:7)

(Screw cutting) (Screw thread rolling)

IJP(c) L 23662-66 T/EWP(t) ACC NR: AP6012800 QE/0030/66/014/002/0391/0402 SOURCE CODE: AUTHOR: Nikiforov. A. E.; Cherepanov, V. I. 53 B ORG: Ural State University. Sverdlovsk Theory of the optical spectrum of ion pairs of 3d3 iron-group impurities in <u>crystals</u> SOURCE: Physica status solidi, v. 14, no. 2, 1966, 391-402 TOPIC TAGS: optic spectrum, crystal impurity, impurity ion, dipole interaction, ruby ABSTRACT: A calculation is made of the energy spectrum of impurity ion pairs with 3d3 configuration in crystals. The optical spectrum of these crystals is interpreted by assuming that a large part of the low-symmetry crystalline field acts on the impurity ion, the electricdipole interaction is taken into account. The case of ruby (Cr3:Alo03) is treated in detail as an example. The results are compared with experimental data. The authors are grateful to V. B. Fedorov for his courtesy in supplying details on the structure of corundum. Orig. art. has: 2 figures, 1 table, and 17 formulas. [Author's abstract] SUB CODE: 20/ SUBM DATE: 19Jan66/ ORIG REF: 005/ SOV REF: 001/ OTH REF: 010/

NIMITAROV, A. W.

Vorrosy ekomotiki derevnobrahstyveiushakei on evehlennisti SSGR Frenters of economics in the wood-processing industry of the U. S. S. R. J. Mocker, Gosled iniciadat, 1952. 170 p.

So: Montaly List of Russian Accessions, V 1 4 No. 4, July 1953

NIKIFOROV, A.F.; UVAROV, V.B.; LEVITAN, Yu.L.; SAMARSKIY, A.A., prof., otv. red.; ORLOVA, I.A., red.; POPOVA, N.S., tekhn. red.

[Tables of Racah coefficients] Tablitsy koeffitsientov Raka.

Moskva, Vychislitel'niy tsentr AN SSSR, 1962. 319 p.

(Quantum theory) (MIRA 15:5)

SHERDAKOV, N.I., dotsent; GORYACHEVA, Ye.M., starshiy prepodavatel; .NIKIFOROV, A.F., dotsent; STEFANOV, D., prof.; TAL*MAN, P.N., dotsent

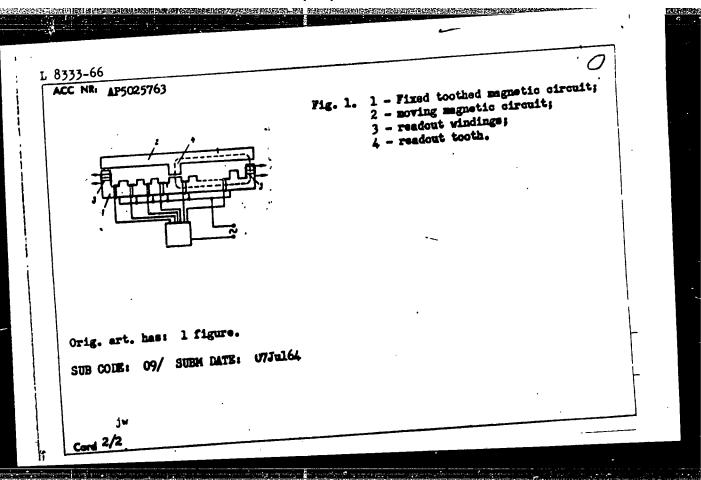
Discussing general biological problems. Nauch. trudy LTA no.99:117-120 '62. (MIRA 17:1)

1. Zaveduyushchiy kafedroy dialekticheskogo i istoricheskogo materializma Leningradskoy ordena Lenina lesotekhnicheskoy akademii imeni Kirova (for Sherdakov).
2. Kafedra dialekticheskogo i istoricheskogo materializma
Leningradskoy ordena Lenina lesotekhnicheskoy akademii imeni
S.M. Kirova (for Goryacheva). 3. Vsesoyuznyy zaochnyy lesotekhnicheskiy institut (for Nikiforov).

NIKIFOROV, Arnol'd Fedorovich, laurest Leninskoy premii; FAYNBOYM,
I.B., red.

[Mathematical analysis] Matematicheskii analiz. Moskva,
Izd-vo "Znanie," 1965. 47 p. (Novoe v zhizni, nauke,
tekhnike. IX Seriia: Fizika, matematika, astronomiia, no.3)
(MIRA 1813)

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2 8333-66 EEC(k)-2/EWA(b)/EWT(1) CC NR: AP5025763 SOURCE CODE: UR/0286/65/000/018/0130/0131] .
AUTHORS: Bogdanov, Yu. V.; Kislova, V. F.; Molchanov, V. N.; Abrantsev, Ye. P.;	
ORG: none	
Zamounicatilekiy ugol'nyy institut)	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 130-131 TOPIC TAGS: phase meter sagnetic circuit, magnet	
ABSTRACT: This Author Certificate presents a discrete contactless phase-sensitive pickup consisting of a fixed toothed magnetic circuit with control windings and a pickup consisting of a fixed toothed magnetic circuit without windings. In order to simplify the pickup and to moving magnetic circuit without windings. In order to simplify the pickup and to moving magnetic circuit without windings are situated on two ex-	
moving magnetic circuit without windings. In order to simplify the property moving magnetic circuit without windings are situated on two exobtain an unambiguous signal pickup, two readout windings are situated on two exobtain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain an unambiguous signal pickup, two readout windings are situated on two exceptain and unambiguous signal pickup, two readout windings are situated on two exceptains and the situated on two exceptains are situated on two exceptains and the situated on two exceptains are situated on two exceptains and the situated on two exceptains are situated on two exceptai	-
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Nikiforov, A.F.

USSR/medicine - Cytology

Gard 1/1 Pub. 22 - 35/40

Authors

Nikiforov, A. F.

Title

Fission of nerve cells

Periodical : Dok. AN SSSR 99/2, 315-316, Nov 11, 1954

Abstract

. The upper cervical sympathetic nodes of an adult cat during normal state and during the incision of the preganglionic fibers were investigated to determine the role and value of nerve cell fission on the physiological regeneration in the field of extremities and constant auto-regeneration of the Nissl substance in processes of rejuvenation of nerve tissues. Various stages of amitotic fission of the sympathetic nerve cells are described. The results obtained are listed. Thirteen references: 10-USSR and 3-German (1873-1953). Illustrations.

Institution: The I. V. Stalin Second State Medical Institute, Moscow

Presented by: Academician A. I. Abrikosov, June 7, 1954

MIKIFORCV, A. F.

"Beaction of the Jensory and otor eincrewee Their Connections are Directed.

(In The Case of Maurons of the Danglion Modosum and Danglion Tervicale Augertia."

Second Moscow State Med Inst iment I. V. Stalin, Moscow, 1955

(Dissertation for the Degree of Candidate of Medical Ociences)

30: Knizhnaya Letopia", No. 32, 6 Aug 55

NIKIFOROV, A.F.

Reaction of neurons of the upper jugular ganglion following the transection of the sympathetic nerve in the neck. Dokl.

AN SSSR 112 no.3:536-537 Ja '57. (MERA 10:4)

1. Vtoroy moskovskiy gosudarstvennyy meditsinskiy institut im. I.V. Stalina. Predstavleno akademikom N.N. Anichkovym. (NERVOUS SYSTEM, SYMPATHETIC)

S-2 USSR / Human and Animal Morphology (Normal and Pathological). The Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 10, 1958, 45549

: Nikiforov, A.F. Author

: As USSR Inst

: Reaction of the Sensory Neuron to the Cutting Title

of Its Dendrites.

Orig Pub: Dokl. AN SSSR, 1957, 112, No 4, 760-762.

Abstract: In cutting the vagus nerve of cats lower or higher the ganglion nodosum, a retrograde degeneration develops. Thus, the sensory neuron respons monotypically to the injury of the peripheral and central dendrites. However, the regeneration takes place more rapidly after the cutting of the vagus nerver higher the g. nodosum. The different speed of the recuperative processes depends upon

Card 1/2

USSR / Human and Animal Morphology (Normal and S-2 Pathological). The Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 10, 1958, 45549

Abstract: the size of the mass of the amputated substance

of the neuron. -- K. G. Shchitkov

Card 2/2

41

NIKIFOROV, A.F. Reaction of the Golgi apparatus of a sensory neuron following section of its peripheral segment. Zhur.nevr.i psikh. 59 no.10:1248-1250 '59. (MIRA 13:5) 1. Kafedra gistologii (saveduyushchiy - prof. G.K. Khrushchov) II Moskovskogo meditsinskogo instituta. (GGLGI APPARATUS physiol.)

S/020/60/135/004/036/037 B016/B066

17 2550

AUTHOR:

Nikiforov, A. F.

TITLE:

Effect of Radiation on the Regeneration Processes in a

Tissue Culture

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 4,

pp. 984-986

TEXT: The author studied the posttraumatic regeneration of a tissue culture after irradiation with differently high doses and on fixation in different points of time after irradiation. The experiments were carried out on the heart of fowl embryos on the 9th - 11th day of incubation. The hearts were cultivated in a medium of fowl embryo extract with plasm of the cock. A sector was cut out from the 2 days old cultures, which consisted of a maternal piece with the adjacent zone of growth. Irradiation took place immediately after the operation, with a-rays of Co⁶⁰ in the TYDD -800 (GUBE-800) apparatus. The following doses were applied: 500, 1000, 5000, 25 000, 50 000, 100 000, and 200 000 r at an intensity of 514 r/min. The cultures were fixed and stained either immediately or 6, Card 1/6

Effect of Radiation on the Regeneration Processes in a Tissue Culture

S/020/60/135/004/036/037 B016/B066

24, and 48 h after the irradiation according to Maksimov (not explained in the text). In the nonirradiated control cultures the author could not detect any cells immediately after applying the defect, but already after 8 h fibroblasts which migrate from the maternal piece may form 3-6 rows (Fig. 1a). In this manner also the defect is filled up. The first indication of a tissue reaction upon irradiation is the suppression and disturbance of the mitotic cell activity. The highest dose at which the author could still observe irregular mitoses, was 25 000 r. In the fibroblasts which are in interkinesis numerous fat vacuoles of different size are formed. So-called nuclear buds are formed on the cell nuclei. At doses of 50 000 - 100 000 r the fibroblasts are destroyed still during the irradiation. This is confirmed by a large amount of cell detritus, occurring in addition to cells which are found in different stages of decomposition. On application of 200 000 r the area of the defect was in all cases free of cell constituents (Fig. 2b). The author concludes that two types of degeneration could be observed: 1) cell clasmatosis, 2) the cell nuclei become pyknotic and the cytoplasm cannot be stained any longer. The data of some scientists, according to which doses of 1000-2000 r or even of 75-100 r are lethal for tissue cultures (Refs. 4-6) are in

Card 2/6

Effect of Radiation on the Regeneration Processes in a Tissue Culture

S/020/60/135/004/036/037 B016/B066

contradiction with his results. According to his own observations only doses of 100 000 - 200 000 r are lethal for heart cultures of fowl embryos. At doses below 50 000 r the migration intensity of the cell constituents in the area of the defect does not differ from that of the control culture (except some particular cases). From doses of 50 000 r onwards a distinct suppression of the capacity of reproduction of the tissue sets in. At 200 000 r the posttraumatic regeneration is completely lost. The study was carried out in the Institut morfologii zhivotnykh AN SSSR (Institute of Animal Morphology of the AS USSR). There are 2 figures and 7 references: 3 Soviet, 2 US, 1 French, and 1 German.

ASSOCIATION:

Institut eksperimental noy biologii i meditsiny Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Experimental Biology and Medicine of the Siberian Department of the Academy of Sciences USSR)

PRESENTED:

May 27, 1960, by I. I. Shmal'gauzen, Academician

SUBMITTED:

May 20, 1960

Card 3/6

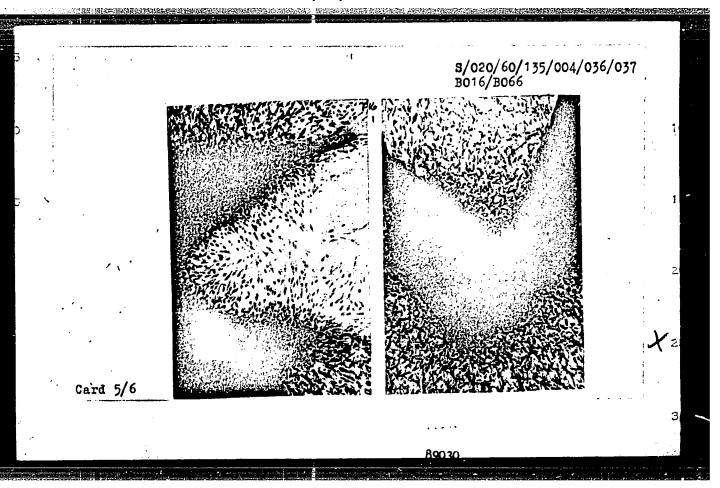
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Legend: Fig. 1 - Area of the defect 8 h (a) and 24 h (b) after the damage; control Fig. 2 - the same area 24 h after irradiation with 100 000 r (a) and 48 h after irradiation with 200 000 r (b).

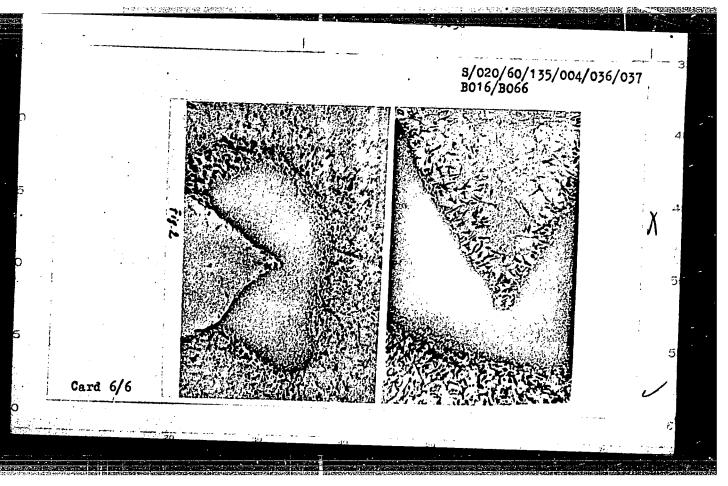
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27, 1220

Nikiforov, A. F.

AUTHOR: TITLE:

The reaction of connective tissue and its regenerating faculties in vitro during the action of penetrating

D223/D305

radiation

PERIODICAL: Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya,

no. 1, 1961, 82-91

This article was based on investigations done at the Institut morfologiya zhivotnykh im. A. N. Severtsova, AN SSSR (Institute of Animal Morphology im. A. N. Severtsov, AS USSR). The author surveys Soviet and foreign publications dealing with the effects of radiation on the organism as a whole and on individual tissues, as well as with methods of tissue cultures in vitro. He points out that although all investigators conclude that lethal radiation doses for tissue cultures are much larger than those needed for entire organism irradiations, quantitative data varies considerably according to the investigator. Sometimes the lethal radiation doses are given in the range of 100,000 - 200,000 r, (Ref. 41: A. N. Stro-Card 1/9

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The reaction of connective tissue...

nd, A. M. Brues, Radiation effects in tissue culture. Texas Rep. Biol. and Med. vol. 12, No 4, 1954), (Ref. 48: L. Halberstædter, L. Doljanski, Radiobiologische Untersuchungen an Gewebekulturen. L. Arch. exp. Zellforsch. Bd. 19, 1937), (Ref. 49: G. Goldhaber, L. Arch. exp. Zellforsch. Bd. 19, 1937), (Ref. 49: G. Goldhaber, L. Doljanski, Radiobiologie studies on tissue culture. I. The immediate effect of x-rays on cell ontgrowth in cultures of fibroblasts. ate effect of x-rays on cell ontgrowth in cultures of fibroblasts. Growth. vol. 6, 1942), others in the range of 1,000 - 2,000 r (Ref. 27: H. Vollmar, B. Rajewski, Mikrokinematographische Studien (Ref. 27: H. Vollmar, B. Rajewski, Mikrokinematographische Studien (Bef. 27: H. Vollmar, B. Rajewski, Mikrokinematographische Studien (Ref. 27: H. Vollmar, B. Rajewski, Mikrokinematographische Studien (Ref. 30: Trahlentherapie, Bd. 60, Hf. 3, 1937), (Ref. in Gewebekulturen. Strahlentherapie, Bd. 60, Hf. 3, 1937), (Ref. 50: T. R. Reid, M. P. Gifford, A quantitative study of the effects of x-radiation on cells in vitro. J. nat. Canc. Inst. vol. 13, No 2, of x-radiation on cells in vitro. J. pat. Contribution a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'action des rayons x sur des fibroblastes cultition a l'étude de l'actio

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The reaction of connective tissue...

irradiation doses affecting tissue morphology. In the author's opinion these discrepancies may be partially explained by different experimental conditions, especially by the different time-rate of irradiation and by the fact that most experiments were carried out immediately after the tissue was put in vitro. In such circumstances, the irradiated tissues were not yet adapted to new life conditions and if they happened to suffer some injuries during the transfer, these could not be distinguished from those caused by irradiation. The purpose of the author's experiments was to study the unfavorable effect of radiation on the regenerating properties of mutilated tissue and to observe differences in the reaction to irradiation between mutilated and sound tissue. For cultures in vitro, the heart connective tissue of chicken embryos, 9 - 11 days old, were chosen. The culture medium consisted of a mixture of chicken fetal extract of the same age and of cock's plasma, diluted with redistilled water 1:1. Experiments were carried out at 37°C. After two days in vitro the samples developed an area of growing new fibroblasts, having a typical well-defined, mainly oval shaped nucleus and one or two nucleoli. Their cytoplasm was free from

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vacuoles. Then a small section <code>/</code> Abstracter's note: No dimensions given <code>/</code> of the culture was cut out, consisting of a piece of mother tissue and a piece of adherent newly grown tissue; the mutilation was performed under a binocular stereoscopic microscope so that a sector between the "mother tissue" and the "new growth zone" was formed; the mutilated cultures were rinsed in a Ringer solution for 5 minutes, moistened with a culture medium and put in a camera. <code>/</code> Abstracter's note: No description given <code>/</code>. Immediately afterwards, the cultures were subjected to irradiation with COOO <code>/</code> rays in the apparatus <code>GUBE-800</code> <code>/</code> Abstracter's note: No description given <code>/</code> with 500, 1000, 5000, 25,000, 100,000 and 200,000 r at a time rate of 514 r/min. This experimental method has two advantages: 1) Only cultures with well developed new growths are studied, the defective ones being eliminated from further examination; 2) It allows observation and comparison of the same sample of cell behavior in the mutilated area as well as that of cells in the unimpaired zone. The cultures were fixed by the Maksimov method <code>/</code> Abstracter's note: No description given <code>/</code> either immediately after irradiation or 6.

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24, and 48 hours afterwards; the dye used was hemalaun and eosin. 369 cultures were studied, 247 irradiated and 122 non-irradiated ones, the latter serving for control purposes. The regenerating process of control samples ran as follows: filling the cut-out area began after 2 - 3 hours; after 6 hours the incision side of the "mother tissue" showed 4 - 7 layers of new fibroblasts; after 8 - 10 hours the area was filled with loosely fitted fibroblasts, few of them showing mitosis activity; the incision side of the "new growth zone" was still free from fibroblasts. After 24 - 48 hours the whole area was filled with new cells. Concurrently, in "new growth zone" normal mitosis was observed in most cells, and a few fat vacuoles as well; macrophage and abnormal mitosis was almost absent. All observations show that filling the cut-out area mainly occurred by cell migration from the "mother tissue". In the irradiated cultures, the regenerating process was hindered, and depended on the intensity of irradiation. Low doses (500, 1000, 5000 r) abated the mitotic activity only temporarily, but its recovery never reached the control levels. With higher irradiation doses, abnormal mitosis was observed with deformed chromosome

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structures. The highest dose when abnormal mitosis was still present was 25,000 r, after which it ceased completely. Apart from mitosis abatement, morphologic changes of cells were observed. Immediately, or 6 hours after irradiation with 500 r, no changes were seen; they were observed only 24 hours afterwards, and were represented by numerous small and large fat vacuoles in the cytoplasm of a few fibroblasts / Abstracter's note: Mostly in the "new growth game" 7 growth zone"_7, protoplasmatic swellings and few cell cleavages. With irradiations in the range of 1000 - 2000 r the cell degeneration symptoms were more pronounced and showed in a shorter time after irradiation; after 24 - 48 hours the number of disintegrating cells decreased, but the intercellular space was filled with detritus of broken cells. At these and still higher doses changes in nucleoli shape were observed: They very often became irregular: long, thin and twisted. With doses of 25,000 and 50,000 r photographs taken immediately or some time after irradiation showed different stages of fibroblast disintegration and a very large quantity of detritus. This was observed mainly in the 'mother

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tissue", and in the center of the "new growth zone" on its border, cells with a large number of small and large vacuoles were seen, their volume deforming the shape of the nuclei. The author did not observe the transformation of small vacuoles into large ones; this could mean that their origin is different, but to prove it more investigations are necessary. The fibroblasts in irradiated samples were often spindle-shaped, and nucleus membrane could be dyed intensively, the coloration being unequal along their circumference, while the cytoplasm could be dyed only slightly or not at all. Another characteristic feature of strongly irradiated fibroblasts was the burgeoning of their nuclei: first a swelling on the nucleus side was formed, then it grew larger to a pear shaped bud and finally was severed from the nucleus. All these degenerative changes were much more marked in the "new growth zone" than among cells filling the cut-out area: up to 25,000 r irradiation, no differences were observed in the filling up of this area in irradiated and control samples. Only a few samples showed small differences in the migration from "mother tissue" fibroblasts 48 hours after irradiation. The same was observed after the 50,000 r dose, small differ-

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ences showing after 24 hours. The dose of 100,000 r affected very strongly the tissue regeneration, but even in that case its effect was more marked in the "new growth zone" than in the cut out area. The 200,000 r dose was lethal to the whole culture; only very few fibroblasts survived the irradiation but even these were completely degenerated and unable to produce new cells. Two different modes of cell death were observed; one with the disintegration of nuclei and cytoplasm with resulting large amounts of cell detritus; the other, without cell cleavage, but with solidification of nuclei and with a cytoplasm which could not be dyed. The author points out that his results differ from those of other investigators, who stated that much smaller radiation doses were lethal to tissue cultures (Refs. 50 and 51: Op cit). There are 7 figures and 53 references: 21 Soviet-bloc and 32 non-Soviet-bloc. The references to the four most recent English-language publications read as follows: M. R. Murray, G. Copeck, A. bibliography of the research in tissue culture, Acad press., New York, 1953; G. F. Whitmore, I E Till, Increase of cellular constituents in x-irradiated mammalian cells

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SUBMITTED: June 18, 1960

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NIKIFOROV, A.F.; NEPOMNYASHCHIKH, G.I.; KREMLEV, N.I.

Autotransplantation of a somatic muscle into the myocardium of a dog. Arkh. anat., gist. i embr. 45 no. 10:36-39 0 '63.

(MIRA 17:9)

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VAN'KO, L.V., STUNZHA, G.S.; NIKIFOROV, A.F.; IGNATOVICH, N.V.

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Morphological and cytophysiological changes in the cells of the deafferentiated lung. Arkh. anat., gist. i embr. 48 no.2:30-35 (MIRA 18:8)

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HIKIFOROV, A.G., otvetstvennyy redaktor; POLYAKOV, K.V., professor, redaktor; ALEXANDROVA, T.A., dotsent, redaktor; PETROVA, K.I., redaktor; BELYAHOVA, Ye., redaktor; TERRHOV, A., redaktor; VISHKOVSKIY, D., tekhnicheskiy redaktor

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